OIPE

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/545,334

DATE: 05/02/2000 TIME: 13:22:40

Input Set : A:\0803.SEQLIST.txt
Output Set: N:\CRF3\050200\I545334.raw

Output Set: N:\CRF3\050200\I545334.raw	_			
4 <110> APPLICANT: Zinselmeior Chui	ENTERED			
Habben, Jeff Tomes, Dwight	- I ERFN			
8 <120> TITLE OF INVENIENCE TO	* * L D			
8 <120> TITLE OF INVENTION: Regulated Expression of Genes in Plant				
C> 13 <141> CURRENT FILING DATE: US/09/545,334 13 <160> NUMBER OF SEC. 70.				
13 <160> WIMBER OF CROSS - 2000-04-0/				
18 <210> SEQ ID NO: 1				
19 <211> LENGTH: 1608 20 <212> TYPE: DNA				
21 <213 OPANION -				
21 <213> ORGANISM: Zea mays 23 <220> FEATURE:				
24 <221> NAME/KEV. CDG				
23 <222> LOCATION, (1)				
28 atg gcg gtg gtt to the contract of the cont	96 DM302000			
29 Met Ala Val Val Tyr Tyr Ley Loy are gee ggg etg ate gee tgc tet	48			
The strain of th	TO DECIE			
The same state of the same sta				
32 cat gca cta gcg gca ggc acg ctt gcg ctc gga gaa gat cgc ggc cgt 34 20 15 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	96 0 1			
20 === 01) G1u ASD Ara C1u Au-	1 3 0 cm			
	- 200			
37 Pro Trp Pro Ala Phe Leu Ala Ala Leu Ala Leu Asp Gly Lys Leu Arg	TECH CENTER 1600/2900			
**	CECH CENTER 180			
40 acc gac agc aac gcg acg gcg gcc tcg acg gac ttc ggc aac atc 41 Thr Asp Ser Asn Ala Thr Ala Ala Ala Ser Thr Asp Phe Gly Asn Ile	JEAN			
JU Ju ASD Phe Gly Age 71-	192			
** 404 LCG (fCr 0+0 00m				
44 acg tcg gcg ctc ccg gcg gcg gtc cta tac ccg tcg tcc acg ggc gac 45 Thr Ser Ala Leu Pro Ala Ala Val Leu Tyr Pro Ser Ser Thr Gly Asp	240			
-74 110 Set Ser The Classical				
10 CLY YLU OCO C+~ ~+~ -				
49 Leu Val Ala Leu Leu Ser Ala Ala Asn Ser Thr Pro Gly Trp Pro Tyr	288			
52 acc atc gcg tto 90				
52 acc atc gcg ttc cgc ggc cgc ggc cac tcc ctc atg ggc cag ggc ttc 53 Thr Ile Ala Phe Arg Gly Arg Gly His Ser Leu Mat Cly Cl				
inn	336			
900 CCC dan was star				
56 gcc ccc ggc ggg gtg gtc gtc aac atg gcg tcc ctg ggc gac gcc ctg ggc gac gcc gcc 115 110 110 110 110 110 110 110	384			
III	304			
123				
61 Ala Ala Ala Pro Pro Arg Val Asn Val Ser Ala Asp Gly Arg Tyr Val	432			
130 130 130 11V Ara Tire 1				
940 900 dan and				
65 Asp Ala Gly Gly Glu Gln Val Trp Ile Asp Val Leu Arg Ala Ser Leu	480			
and Ald Ser Leu	•			

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	Ou	itput Set: N:\(CRF3\050200\I545334.raw
66	145		(2010304.1dw
68	aca cac aac a+	150	155
69	Ala Arg Gly Va	y yeg eeg ege	tcc tgg acc gac tac ctc tac ctc acc 528 Ser Trp Thr Asp Tyr Leu Tyr Leu Thr
70		165	THE ASP TYP Lett Typ Ton mb-
72	YEC GGC GGC ac.	7 At - 1 .	175
73	Val Gly Gly Th	r Leu Com 3-	gca ggc atc agc ggc cag gcg ttc cgc 576 Ala Gly Ile Ser Gly Gln Ala Phe Arg
74	181	n	Der Gry Gin Ala Dho A
76	Cac dac ces as		100
77	His Gly Pro Gli	l Ile Ser Agn	gtg ctg gag atg gac gtt atc acc ggc
78	145		THE MEL MSD VALUE OF THE CO.
80	vat qua dad ata	· ~+~ ·	205
81	His Gly Glu Met	Val Thr Cve o	Ser Lys Gly Ley Asp Al. 9ac etg ttc 672
82	210		TO OTH HEU ASH AIR AGN TOU DE-
84	YAU YEE OTO OFA		420
85	Asp Ala Val Leu	Gly Gly Leu G	gg cag ttc gga gtg atc acc cgg gcc 720 ly Gln Phe Gly Val Ile Thr Arg Ala
86	227	224	The control of the co
88	YYY ALC OCO OFA	020	233
89 90	Arg Ile Ala Val	Glu Pro Ala p	cg gcg cgg gcg cgg tgg gtg cgg ctc 768 ro Ala Arg Ala Arg Trp Val Arg Leu
90		215	The Ard Tro Val Are Tare
92	YEY LEC ACC GAG	++	250
94	val Tyr Thr Asp	Phe Ala Ala Pi	tc agc gcc gac cag gag cgg ctg acc 816 he Ser Ala Asp Gln Glu Arg Leu Thr 265
	260		ASP GIR GIR Arg Ton mb-
97	900 000 000 000	77 C	270
98	Ala Pro Arg Pro	Gly Gly Gly Gi	265 270 270 gg tcg tcg tc ggc ccg atg agc tac 864 270 Met Ser Tyr
100	2/5		THE GIV PTO MAT CON MALL
101	Val Clu Glu G	gtg ttc gtg a	285 ac cag agc ctg gcg acc gac ctg gcg 912
102	yar Gru Gry Ser	Val Phe Val A	ac cag agc ctg gcg acc gac ctg gcg 912 sn Gln Ser Leu Ala Thr Asp Leu Ala
104	33C 3CG GGG ++	295	300 Leu Ala
105	Asp Thr Clar Die	ttc acc gac g	cc gac gtc gcc cgg atc gtc gcg ctc 960
106	305	Phe Thr Asp A	cc gac gtc gcc cgg atc gtc gcg ctc 960 la Asp Val Ala Arg Ile Val Ala Leu
108	acc aga aga caa	310	315
109	Ala Gly Glu Ana	add gcc acc ac	315 320 CC gtg tac agc atc gag gcc acg ctc 1008
110	or or ord Arg	ASN Ala Thr Th	cc gtg tac agc atc gag gcc acg ctc 1008 hr Val Tyr Ser Ile Glu Ala Thr Leu
112	Mac rat: dan aan	~~~	776
113	Asn Tyr Asp Asn	Ala mbe Na	330 335 Eg gcg gcg gtg gac cag gag ctc gcg 1056
	340		THE TALL ASD WITH CITY TON A1-
	בטט ענם כדת מתה	300 -4	350
117	Ser Val Leu Glv	The Lou com m	c gtg gaa ggg ttc gcg ttc cag cgc 1104 r Val Glu Gly Phe Ala Phe Gln Arg
	.377		Oty FARE ALA PRA CIN A
	INC VIEW TOO TOO		ነስ ካ
121	sp Val Ser Tyr	Thr Ala pho to	t gac cgg gtg cac ggc gag gag gtg 1150
	3/0	200	-r you nis GIV GIV GIV Was
	LA CIC SEC DOM		200
125 A	la Leu Asn Lys I	eu Gly Len mad	o Arg Val Pro Nie R
	0.5	200	TO THE PER PER PER PER PER PER PER PER PER PE
-20 a	LA LIC GLG COM V		333
129 M	et Phe Val Pro A	rg Ser Arg Tie	g gcc gac ttc gac cgc ggc gtc ttc 1248 Ala Asp Phe Asp Arg Gly Val Phe
130	4	05	The ASP AIG GIV Val Dho
			410 415

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aag ggc atc ttg cag ggc acc gac atc gtc ggc ccg ctc atc gtc tac Lys Gly Ile Leu Gln Gly Thr Asp Ile Val Gly Pro Leu Ile Val Tyr 1296 ccc ctc aac aaa tcc atg tgg gac gac ggc atg tcg gcg gcg acg ccg Pro Leu Asn Lys Ser Met Trp Asp Asp Gly Met Ser Ala Ala Thr Pro
445 138 1344 tcg gag gac gtg ttc tac gcg gtg tcg ctg ctc ttc tcg gtg gcg
Ser Glu Asp Val Phe Tyr Ala Val Ser Leu Leu Phe Ser Ser Val Ala
450 140 141 142 1392 144 ccc aac gac ctg gcg agg ctg cag gag cag aac agg agg atc ctg cgc Pro Asn Asp Leu Ala Arg Leu Gln Glu Gln Asn Arg Arg Ile Leu Arg 145 146 tte tge gae ete gee ggg ate cag tae aag ace tae etg geg egg cae Phe Cys Asp Leu Ala Gly Ile Gln Tyr Lys Thr Tyr Leu Ala Arg His
485
490
495 149 150 1488 acg gac cgc agt gac tgg gtc cgc cac ttc ggc gcc gcc gag tgg aat
Thr Asp Arg Ser Asp Trp Val Arg His Phe Gly Ala Ala Glu Trp Asn
500
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500 152 153 154 1536 cgc ttc gtg gag atg aag aac aag tac gac ccc aag agg ctg ctc tcc 156 Arg Phe Val Glu Met Lys Asn Lys Tyr Asp Pro Lys Arg Leu Leu Ser 157 158 1584 ccc ggc cag gac atc ttc aac tga 160 Pro Gly Gln Asp Ile Phe Asn 161 162 530 1608 165 <210> SEQ ID NO: 2 166 <211> LENGTH: 535 167 <212> TYPE: PRT 168 <213> ORGANISM: Zea mays 170 <400> SEQUENCE: 2 171 Met Ala Val Val Tyr Tyr Leu Leu Leu Ala Gly Leu Ile Ala Cys Ser
172 I 15 10 15 His Ala Leu Ala Ala Gly Thr Leu Ala Leu Gly Glu Asp Arg Gly Arg Pro Trp Pro Ala Phe Leu Ala Ala Leu Ala Leu Asp Gly Lys Leu Arg Thr Asp Ser Asn Ala Thr Ala Ala Ala Ser Thr Asp Phe Gly Asn Ile Thr Ser Ala Leu Pro Ala Ala Val Leu Tyr Pro Ser Ser Thr Gly Asp
70 75 80 Leu Val Ala Leu Leu Ser Ala Ala Asn Ser Thr Pro Gly Trp Pro Tyr
85
90
95 Thr Ile Ala Phe Arg Gly Arg Gly His Ser Leu Met Gly Gln Ala Phe Ala Pro Gly Gly Val Val Val Asn Met Ala Ser Leu Gly Asp Ala Ala
115
120
125 Ala Ala Ala Pro Pro Arg Val Asn Val Ser Ala Asp Gly Arg Tyr Val 188 Asp Ala Gly Gly Glu Gln Val Trp Ile Asp Val Leu Arg Ala Ser Leu

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Ala Arg Gly Val Ala Pro Arg Ser Trp Thr Asp Tyr Leu Tyr Leu Thr 191 Val Gly Gly Thr Leu Ser Asn Ala Gly Ile Ser Gly Gln Ala Phe Arg 193 His Gly Pro Gln Ile Ser Asn Val Leu Glu Met Asp Val Ile Thr Gly 195 196 His Gly Glu Met Val Thr Cys Ser Lys Gln Leu Asn Ala Asp Leu Phe
210
225
220
220 197 198 Asp Ala Val Leu Gly Gly Leu Gly Gln Phe Gly Val Ile Thr Arg Ala
225
-- -- -- 230
-- 240 199 200 Arg Ile Ala Val Glu Pro Ala Pro Ala Arg Ala Arg Trp Val Arg Leu
245
250
250 201 202 203 204 Ala Pro Arg Pro Gly Gly Gly Gly Ala Ser Phe Gly Pro Met Ser Tyr 205 206 Val Glu Gly Ser Val Phe Val Asn Gln Ser Leu Ala Thr Asp Leu Ala
290
295
300 207 208 Asn Thr Gly Phe Phe Thr Asp Ala Asp Val Ala Arg Ile Val Ala Leu 320 209 210 Ala Gly Glu Arg Asn Ala Thr Thr Val Tyr Ser Ile Glu Ala Thr Leu
325
330
335 Asn Tyr Asp Asn Ala Thr Ala Ala Ala Ala Val Asp Gln Glu Leu Ala 213 214 Ser Val Leu Gly Thr Leu Ser Tyr Val Glu Gly Phe Ala Phe Gln Arg 215 216 Asp Val Ser Tyr Thr Ala Phe Leu Asp Arg Val His Gly Glu Glu Val 217 218 Ala Leu Asn Lys Leu Gly Leu Trp Arg Val Pro His Pro Trp Leu Asn 390 395 400 219 220 Met Phe Val Pro Arg Ser Arg Ile Ala Asp Phe Asp Arg Gly Val Phe 221 222 Lys Gly Ile Leu Gln Gly Thr Asp Ile Val Gly Pro Leu Ile Val Tyr
420
425
430 224 Pro Leu Asn Lys Ser Met Trp Asp Asp Gly Met Ser Ala Ala Thr Pro 225 226 Ser Glu Asp Val Phe Tyr Ala Val Ser Leu Leu Phe Ser Ser Val Ala 450 460 227 228 Pro Asn Asp Leu Ala Arg Leu Gln Glu Gln Asn Arg Arg Ile Leu Arg
465
475
480 230 Phe Cys Asp Leu Ala Gly Ile Gln Tyr Lys Thr Tyr Leu Ala Arg His
485
490
495 Thr Asp Arg Ser Asp Trp Val Arg His Phe Gly Ala Ala Glu Trp Asn 500 Arg Phe Val Glu Met Lys Asn Lys Tyr Asp Pro Lys Arg Leu Leu Ser 236 Pro Gly Gln Asp Ile Phe Asn 238 240 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/545,334 DATE: 05/02/2000 Input Set : A:\0803.SEQLIST.txt TIME: 13:22:40 Output Set: N:\CRF3\050200\1545334.raw 241 <211> LENGTH: 51 242 <212> TYPE: DNA 243 <213> ORGANISM: Artificial Sequence 245 <220> FEATURE: 245 <22U> FEATURE: 246 <223> OTHER INFORMATION: Synthesized based on sequence from Agrobacterium 249 <400> SEQUENCE: 3 250 caucaucauc auggatecae caatggatet acgtetaatt tteggtecaa e 253 <211> LENGTH: 42 254 <212> TYPE: DNA 255 <213> ORGANISM: Artificial Sequence 51 257 <220> FEATURE: 258 <223> OTHER INFORMATION: Synthesized based on sequence from Agrobacterium 261 <400> SEQUENCE: 4 201 GOV SEQUENCE: 1 262 Cuacuacuac uagttaactc acattcgaaa tggtggtcct tc 265 <211> LENGTH: 29 266 <212> TYPE: DNA 267 <213> ORGANISM: Zea mays 42 269 <400> SEQUENCE: 5 270 catgccatgg cggtggttta ttacctgct 272 <210> SEQ ID NO: 6 273 <211> LENGTH: 31 274 <212> TYPE: DNA 275 <213> ORGANISM: Zea mays 29 277 <400> SEQUENCE: 6 278 cgggatcctc atcatcagtt gaagatgtcc t 280 <210> SEQ ID NO: 7 281 <211> LENGTH: 5622 282 <212> TYPE: DNA 283 <213> ORGANISM: Artificial Sequence 31 285 <220> FEATURE: 286 <223> OTHER INFORMATION: Promoter and terminator from Zea mays as found in Genbank Accession #578780; gene from Agrobacterium tumefaciens as found in Molecular and General 289 Genetics 216:388-394 (1989). 291 <400> SEQUENCE: 7 292 gctctagatt atataattta taagctaaac aacccggccc taaagcacta tcgtatcacc 293 tatotaaata agtoacggga gtttcgaacg tccacttcgt cgcacggaat tgcatgtttc 294 ttgttggaag catattcacg caatotccac acataaaggt ttatgtataa acttacattt 295 ageteagtt aattacagte ttatttggat geatatgtat ggtteteaat ceatataagt 296 tagagtaaaa aataagtta aattttatot taattoacto caacatatat ggatotacaa 60

297 tactcatgtg Catccaaaca aactacttat attgaggtga atttggtaga aattaaacta

298 acttacacac taagccaatc tttactatat taaagcacca gtttcaacga tcgtcccgcg

290 toaatattat taaaaaaacto otacatttot ttataatcaa coogcactot tataaatctot

300 tototactac tataataaga gagtttatgt acaaaataag gtgaaattat otataagtgt

301 totggatatt ggttgttggo toccatatto acacaacota atcaatagaa aacatatgtt

120

180

240

300

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/545,334 DATE: 05/02/2000 TIME: 13:22:41

Input Set : A:\0803.SEQLIST.txt
Output Set: N:\CRF3\050200\1545334.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date